

Title (en)

METHOD FOR PRODUCING HIGH-PURITY TEREPHTHALIC ACID

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HOCHREINER TEREPHTHALSÄURE

Title (fr)

PROCÉDÉ DE PRODUCTION D'ACIDE TÉRÉPHTALIQUE À HAUTE PURETÉ

Publication

EP 3326993 A1 20180530 (EN)

Application

EP 16827824 A 20160721

Priority

- JP 2015144837 A 20150722
- JP 2015144838 A 20150722
- JP 2016071393 W 20160721

Abstract (en)

A method for producing high-purity terephthalic acid, comprising following steps (a) to (c) : the step (a) ; obtaining crude terephthalic acid crystal by liquid phase-oxidizing a p-phenylene compound; the step (b) ; obtaining a terephthalic acid crystal slurry by a catalytic hydrogenation treatment of the crude terephthalic acid crystal; and the step (c) ; introducing the terephthalic acid crystal slurry into an upper portion of a mother liquor replacement tower, and bringing the slurry into contact with an upward flow of replacement water introduced from a bottom portion of the mother liquor replacement tower while making the terephthalic acid crystal settled down in the tower, and extracting the terephthalic acid crystal as a slurry with the replacement water from the tower bottom portion, wherein (1) a stirring blade unit is disposed in a slurry layer in the bottom portion of the mother liquor replacement tower, and fluidity of the slurry layer is maintained by rotating the stirring blade unit in such a way that stirring power is 0.1 to 1.0 kWh/m³ per unit volume of the slurry layer, and (2) the replacement water is fed through the replacement water feed opening provided in the stirring blade unit.

IPC 8 full level

C07C 51/265 (2006.01); **C07C 51/43** (2006.01); **C07C 51/487** (2006.01); **C07C 63/26** (2006.01)

CPC (source: EP US)

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